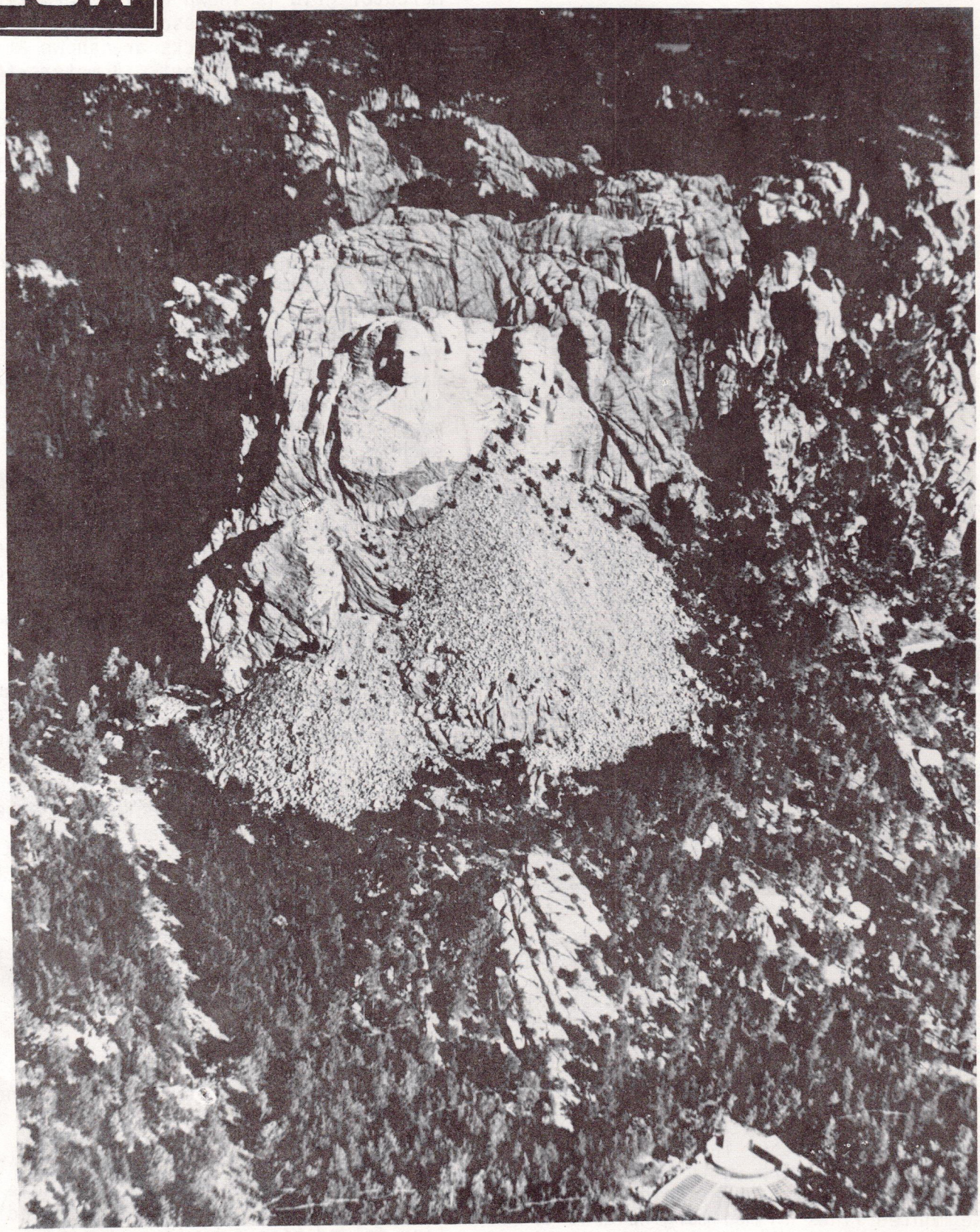
Topographically Speaking



MAY-JUNE 1980

GEOLOGICAL SURVEY, NATIONAL MAPPING DIVISION
1400 Independence Road, Rolla, Missouri 65401

Vol. 2
No. 5

EDITORIAL STAFF

R. D. Yenzer . . . . . Editor
J. C. Earl . . . . . Associate Editor
H. C. Meaux . . . . Plans & Production
P. D. Lampert . . . . . Cartography
H. P. Wallis . . . . . Photogrammetry
L. C. Bennett . . . . . Field Surveys
L. L. Jontz . . . . . Sports
R. J. Southard . . . . . Typist
W. B. McComb
C. J. Forbes . . . . . *Photographers*
J. J. Wynn
J. C. Earl . . . . . *Illustrators*

****

COVER PHOTO

Mt. Rushmore National Memorial,
Black Hills, South Dakota

****

NEW TOPOGRAPHIC MAP PUBLISHED OF HENRY COUNTY, MO.

A topographic map of Henry County, Mo., has been published by the U.S. Geological Survey as a prototype for the possible publication of similar maps for other counties in the state.

The four-color map of the 734-square-mile county, produced in the metric system, is the first single-county map in Missouri published by the Survey, said Lawrence H. Borgerding, chief of the USGS Mid-Continent Mapping Center, Rolla, Mo.

Borgerding said the metric format of the 1:100,000-scale Henry County map was selected in keeping with federal and USGS policy of supporting and encouraging the use of the international metric system of measurement in the United States.

The map shows contour intervals and elevations in meters, with contours at 10-meter intervals. Bar scales (segmented lines in map margins used to measure distances on maps) are shown in meters and kilometers as well as feet and miles. The Universal Tranverse Mercator grid is shown at 10,000-meter intervals, and the Missouri plane coordinate system grid ticks are shown at intervals of 25,000 feet. A meters-to-feet conversion table is in the map margin.

Features on the map are shown by simplified symbols that can be more readily understood, and that are compatible with planned digital cartographic data that can be used in computers and automated mapping equipment.

A complete legend of map symbols is in the map margin. Feature separation rather than traditional color separation techniques were used in compiling the map. Certain categories of features such as principal roads, other roads and water features are available as separate master drawings. This permits users interested in preparing special-purpose maps to obtain reproducibles for only those features required for their custom maps.

USGS topographic maps, such as the one produced for Henry County, show the shape and elevations of the landscape; identify roads, trails and streams; and delineate a wide range of other natural and man-made features. They are useful tools for engineers, planners, administrators and others involved with development, resource, environmental and other projects involving land and natural resources.

Topographic maps also serve as useful "silent guides" to the out-of-doors, especially for hikers, campers, fishermen and other open-air enthusiasts who want to get away from beaten paths.

Borgerding said the 1:100,000-scale selected for the Henry County map is convenient for the metric system, since one centimeter on the map represents one kilometer on the ground (or one inch represents 1.6 miles). The map, printed on 20-by-30-inch sheets, is available in a flat edition or in a pocket-size edition folded to a 4-by-10-inch size.

Although this is the first topographic map covering only Henry County published by the USGS, the county is covered by other series of USGS topographic maps, Borgerding said. For instance, Henry County is shown on parts of two 1:250,000-scale USGS topographic maps.

Copies of the Henry County map may be purchased, for $2 each, from the Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, Colo. 80225. Orders must include checks or money orders payable to the U.S. Geological Survey.

Copies also are available for purchase from the Missouri Department of Natural Resources, Division of Geology and Land Survey, P.O. Box 250, Fairgrounds Road, Rolla, Mo. 65401.

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USGS NAMES NEW MAPPING CHIEF

R. B. Southard has been named the first chief of the newly organized National Mapping Division formed by the U.S. Geological Survey, Department of the Interior, to map the nation and expand applications of cartographic and geographic sciences in resource management.

Southard, 57, a career employee of the USGS since 1949, will direct the operations of one of the major divisions of the Geological Survey and the largest civilian land mapping operation in the nation.

Formerly chief of the Topographic Division, one of the USGS units from which the National Mapping Division was established, Southard has served as acting chief of the new division since last January.

As chief of the new division, Southard will be responsible for the National Mapping Program of the United States, working with more than 30 federal agencies and all of the states to assess public mapping needs, establishing priorities for meeting them, and overseeing production of maps and related cartographic and geographic information.

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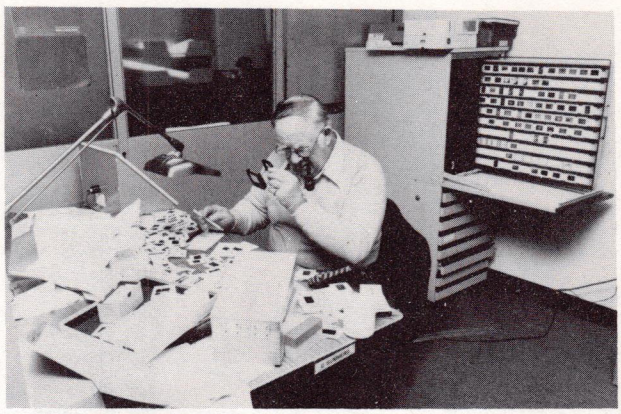

"DOES THE FACE LOOK FAMILIAR?"

When being active and involved is a way of life, Jerry Berry's retirement certainly does not mean sitting on the back porch watching the 17th green at Oak Meadow Country Club. To him it's more like part-time employment at the University of Missouri-Rolla, part-time employment at MCMC, and occasionally, part-time retirement.

As a re-employed annuitant, Jerry has the project of indentifying, organizing, indexing and filing all the 35 mm slides that are floating about the Center. The slide cabinet behind Jerry contains master slide racks and storage drawers for duplicate slides. Behind the slide racks is a light panel which allows one to view the master slides. Each of these slides are numbered and cataloged as to catagory, such as cartography, photogrammetry, field surveys, historical, etc. To select slides for a presentation, one may now view the master slides, record the number of the slide desired, then retrieve these slides from the duplicates in the drawers below. After the presentation the slides are merely returned to the storage drawers.

The slide cabinet, which is located in NCIC, will be a considerable improvement in selecting and locating slides because when Jerry's project is complete, all slides will be in one central location.

By H. C. Meaux

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NEW BRANCH CHIEFS

Dale Stevens was promoted to Chief, Branch of Cartography, Mid-Continent Mapping Center on May 6, 1980, when he reported for duty in his new position at Rolla.

For the past 3½ years Dale was Chief of the Cartographic Standards Team of the National Mapping Division's Research and Technical Standards Branch in Reston, Virginia. Prior to his assignment in Reston, Dale was a Section Chief in the Branch of Cartography at MCMC. A native of Rolla, his promotion to Chief and subsequent transfer to MCMC is really a homecoming and he's happy to be back in the Ozarks with his friends and co-workers.

After his discharge from the Marine Corps and two years at UMR, Dale started his employment with the Survey in 1949. He was recalled into the Marines during the Korean Conflict--and again discharged and continued his service with the Branch of Cartography until his transfer to R&TS in 1976.

Dale and Betty are building a home in the Oak Hills Subdivision near the country club in Rolla. Dale brings a wealth of experience to his new position and this Mapping Center is fortunate to have a leader with Dale's talent, experience and sincerity as Chief of Cartography.
Welcome Home Dale!

By Phil Lampert

Francis E. (Gene) Lortz has recently been named as the new Chief, Branch of Photogrammetry.

Mr. Lortz earned a B.S. degree in Civil Engineering from the University of Missouri School of Mines and Metallurgy (UMR) in May, 1961. His Federal career began in February, 1965 with the USGS at MCMC in the Engineer Training Program. In 1969, Gene attended the Departmental Manager Development Program in Washington, D.C., where he was recognized by the Department for his academic achievement. Gene then returned to MCMC where he served as Supervisory Cartographer over the Photocontrol Requirements Unit and, later, the Aerotriangulation Unit. Gene was promoted to Chief, Technical Planning Section in September 1978, and later was assigned as the Chief of a Photogrammetric Operations Section where he served until his selection as Branch Chief.

Gene is an avid softball player, and enjoys golfing, camping, water skiing, gardening and singing. Gene, his wife, Blanche, and their daughters Sandy, Teresa and Lisa reside in Rolla.

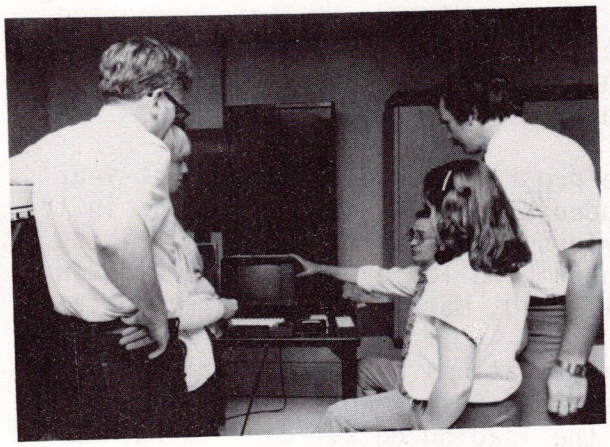
It is a real pleasure to welcome a true professional with Gene's ability, experience and integrity as Chief of Photogrammetry at MCMC.

Congratulations Gene!

By Bill Smith

SHADOW DAYS

Several 6th grade middle school classes participated in what is called "Shadow day." Shadow day is when the students attend work with one of their parents, learning just how Mother and Father go about their daily office schedule. The students who accompanied their parents were given a tour of the entire facility. The mapping process from authorization to publication was explained to them.



Learning about the new Perkin-Elmer Computer from Ed Jones are Don Stuckey and his daughter Debbie and Jim Earl and his daughter Michele.

They were able to see stereo models first hand, watch the Gerber Plotter operate, try their hand at scribing roads and contours, and were given a first hand explanation of the Perkin-Elmer Computer system recently installed in the computer section. After the youngsters asked questions concerning their parents jobs, their day was completed with lunch.

The students returned to school with a little more knowledge of what it is going to be like when they grow up.

By J. Earl

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by J. P. Ryan, Projects Chief

The annual Illinois Survey picnic was held May 3, 1980. It was located at the Izaac Walton Lodge in the beautiful Lake of the Woods Champaign County Park about 15 miles west of Champaign. All the current four mapping projects had people in attendance. Those attending, including their families were: Bob Barrett, R. R. Blaser, R. L. Johnson, M. L. Kennedy, J. E. Koons, D. R. Lucas, W. R. McFarlin, J. W. O'Brien and J. P. Ryan.

Jim Koons brought his ham radio set-up and we were able to establish contact with Dan Bolin and Joe Funk in Rolla, Missouri. We had an interesting few hours conversing with them. An attempt was made to contact Dave Bennett in Louisiana but no contact could be made.

The day was beautiful and everyone had a marvelous time.

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NEW TYPIST FOR TOPO STAFF

Topographically Speaking regrets the loss of Brenda Gardner who was an excellent typist on the staff. Brenda moved to Odessa, Texas with her husband Jim, who recently graduated from the University of Missouri - Rolla and went to work for Gulf Oil Company.

With that bit of bad news in mind our Editor went to work looking for a typist. He found a very cheerful, ambitious and energetic young lady who was willing to fill the gap. Her name is Rita Southard and she is from Wichita, Kansas, although she has been in the Rolla area for two years. During that time she has attended numerous classes including clerk-typist classes at the Vocational School in Rolla.

Rita has been working under a student appointment in the Geodetic Section.

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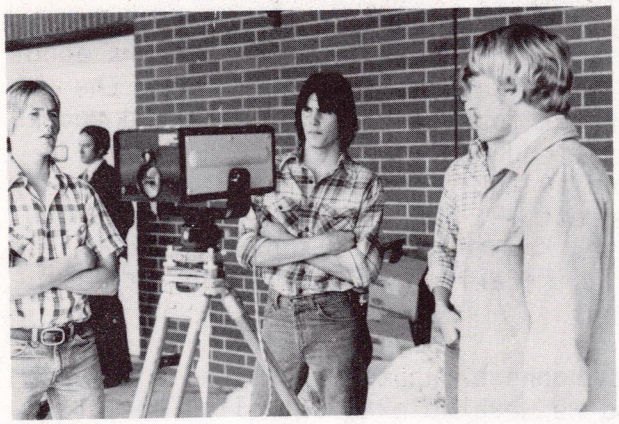
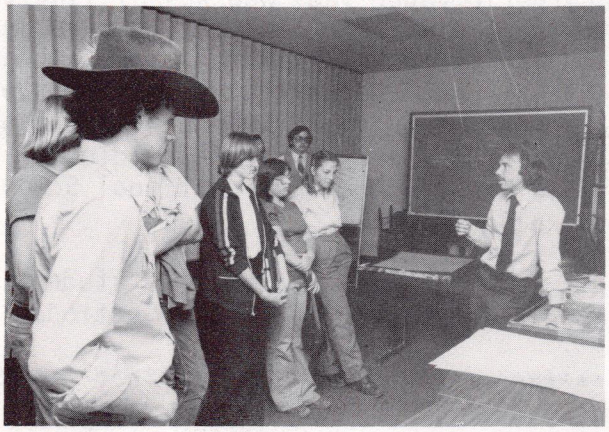


FIFTH ANNUAL ACSM WORKSHOP

On May 6 and 7, the Greater Rolla Area Chapter of the American Congress on Surveying and Mapping conducted their fifth annual workshop for the architectural and drafting classes of the Vocational School and Rolla High School.

The first day was spent introducing the approximately one hundred participating students to the techniques of map making. Harrison Meaux traveled to both schools and presented the film "Mapping the Earth's Surface," after which he answered questions.

The second day's activities were conducted at the mapping center. Because the group included advanced students who had participated in last year's workshop, these students were given a special project.



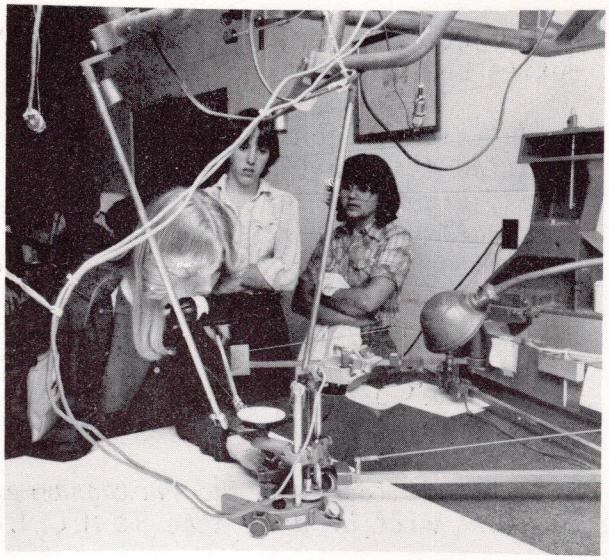
Under the watchful eyes of Dick Pirtle, the advanced students ran a supplemental control line starting at the benchmark named "Centennial" and tying into the benchmark named "McCutchen." They were given the opportunity to set up the planetable and alidade, take their own readings, make the recordings, and be rodpersons. Upon the completion of the line and calculation of the final figures, the group's line tied within .1-foot of the actual elevation, quite an accomplishment for their first time. As fate would have it, rain cancelled the afternoon's advanced session to be conducted by Alan Giebink, Danny Bolin and Dick Pirtle.

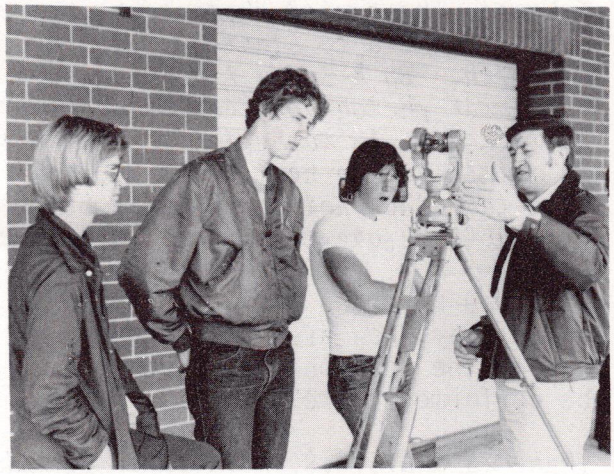
The program set up for the first-year students included demonstrations in the various phases of making maps. These groups were led by Marshall Creighton, Bill Good, Mark Berg and Larry Jontz.

Demonstrations on the operation of various field instruments were conducted on the loading dock. Jack Turner explained the techniques and theories involved in the use of an alidade, while Al Niles explained the T-2 Theodolite, and Dan Lashley and Norman Brown from the Department of Natural Resources demonstrated the Electronic Distance Measuring Device (EDM-Laser).

Utilizing two Kelsh plotters and stereomodels of Rolla, Bob Bullinger explained photogrammetric techniques and theories. The students were then allowed to draw their own contours and cultural features from the Rolla models. Tom Wayman and John Conroy represented the Branch of Cartography explaining the procedures involved in scribing, creating a name overlay, and checking a composite. John Paulsmeyer of the Department of Natural Resources gave a slide presentation explaining the history, purpose, and field techniques of a land survey.

At the conclusion of the workshop, a brief question and answer period concerning occupational opportunities with the Federal Government was conducted by Florence Sanders of the Mid-Continent States personnel office.





With the exception of the afternoon shower, this year's workshop was again a success and accomplished it's purpose of introducing the participating students to the fields of surveying and cartography. The members of the Education Committee would like to thank everyone who volunteered their services for the workshop, to William Todd for his assistance with the rooms and equipment, and especially to Messrs, Borgerding and Southern for their support and enthusiastic cooperation of this project.

By Larry Jontz
Chairman, Education
Committee

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A.S.P.

The American Society of Photogrammetry held a lecture on Saudi Arabia on the 15th of May in the Main Conference Room. The guest speaker for the lecture was Mr. Dan Canfield, supervisor, Branch of Photogrammetry MCMC.

For the past several weeks Mr. Canfield has been working with Mr. Charles Ziegler, Chief, Branch of International Activities, Mr. Don Hadley, Chief, USGS Mission Jeddah and Mr. Fred Fuller, and Mr. DeWayne Faulkender also assigned to the mission concerning the up coming project to be compiled here at MCMC.

Mr. Canfield explained the difficulties in working with other nations, the red tape involved, and some of the humorous sides to his trip.

The interest to this center is the Photogrammetry and Cartography portions of this project which will be worked here.

In addition to his lecture, Mr. Canfield presented a slide show and several visual aids. Informative and interesting was the best way to describe this program. The meeting was concluded with coffee and donuts.

By J. Earl

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ATTENTION TO ALL FIELDMEN:

If gasoline prices keep soaring, automobiles may become to expensive to drive. The following information may become invaluable.

Daily ration, in pounds, for stock.			
	Oats*	Corn*	Hay
Heavy horses	12	15	24
Mules	10	12	20

*The ration of oats and corn are substitutes for each other.

The preceeding table came from "Topographic Instructions of Geological Survey" published in 1928.

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JEDDAH

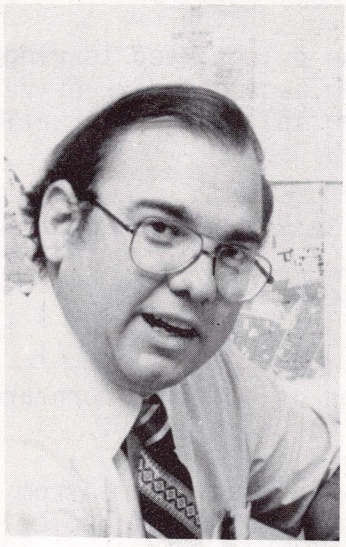
Dirt and trash piles, high masonry walls, salt flats, large lava flows, wadis, and date groves, just a few features which are at this time unfamiliar to most MCMC personnel, but they are about to become common mapmaking terms.

MCMC has been selected to do the direct compilation of approximately 1035 square miles of Saudi Arabia. The area is located on the east coast of the Red Sea, in and around the town of Jeddah. The terrain varies from table top flatness to large mountainous areas with many rock outcrops.

The entire project, from aerial photography to publications will be overseen by Mr. Dan Canfield, Unit Supervisor, Branch of Photogrammetry, MCMC. This project is somewhat unusual and we (Topo-Speaking) thought it would be of interest to our readers to talk with Mr. Canfield and question him on the problems and solutions being used in mapping this country.

Q. Dan, In what way are you involved with the Jeddah project?

A. *I am the project manager.*



Dan Canfield

Q. As project manager, what will your duties be?

A. *My duties will consist of the coordination through Charles Zeigler, Chief, Branch of International Activities, all phases involved, these are aerial photography, fieldwork, cartography, photogrammetry, and publications.*

Q. Is all the work going to be done in Saudi Arabia?

A. *No! The Cartography and Photogrammetry protions will be done here at M.C.M.C.*

Q. Has the project got off the ground yet?

A. *I hope! The aerial photography has been scheduled to start on Saturday June 7th. By a Saudi Arabian decree no aerial photography can be flown between June 15 to September 15, this is mainly due to heat and haze, so I hope that the photography will be available before the June 15 deadline.*

Q. With you here and the work half a world away, how are you going to handle the work phases which are to be performed there?

A. *There is a U.S.G.S. mission in Jeddah which works under contract for the Saudi Arabia Minister of Petroleum and Mineral Resources. The chief of this mission is Mr. Donald Hadley and he has several NMD (National Mapping Division) personnel assigned who will monitor the work being performed. Mr. Fred Fuller will be monitoring the aerial photography and Mr. DeWayne (D.J.) Faulkender, who is visiting the center today will be monitoring the field work.*

Q. Mr. Faulkender, welcome to MCMC. How long have you been stationed at the mission in Jeddah?

A. *Over 3½ years.*

Q. Where before that?

A. *I was in W.M.C. and then was resident engineer in Flagstaff, Arizonia.*

Q. How many are involved, both American and locals in the U.S.G.S. mission in Jeddah?

A. *At the present time we have thirty Americans employed at the mission and some 400 local employees who live within Jeddah.*

Q. DeWayne, you are responsible for coordinating the field work, have you got everything ready to start?

A. *Well, we are still working on some of the problems which have come up, but for now, not all the problems have been ironed out.*

Q. Dan, what is D.J.'s purpose for visiting MCMC at this time?

A. *As DeWayne mentioned we are trying to get together on some of the field problems but we're also discussing problems which may be encountered during production phases and then we're meeting with managers from the four branches. This meeting was used to work out problems before compilation is started.*

Q. What problems are you talking about?

A. *Some of these problems are aerial photography security, symbolization, Arabic type acquisition, drainage treatment, bathymetric data acquisition, Arabic to English Translation, color design and legends, working in U.T.M. coordinates system on the International Spheroid, and the possibility of a request for a 1:10,000 urban map of Jeddah.*

Q. At what map scale and contour interval will this project be compiled?

A. *The project will actually have 3 outputs, an Orthophotoquad in English, line maps in English and Arabic. All of these will be produced at a scale of 1:25,000. The line maps in the flat coastal area will be compiled at a 2 meter contour interval, and the steeper terrain will be compiled at a 6 meter interval.*

Q. Dan, this job is sure to run into some money, who is going to pay for it?

A. *This job is being totally financed by the Saudi Arabian Government.*

Q. Have you set a date for completion of this project?

A. *The proposal calls for a three year schedule.*

Dan, DeWayne thank you for letting us talk with you and good luck on your project both here and in Jeddah.

By J. Earl

DeWayne Faulkender

ACSM NEWS

May 6, Holiday Inn, Rolla, Missouri
by Phil Lampert

The Greater Rolla Area Section (GRAS)--American Congress on Surveying and Mapping held a dinner meeting May 6 at the Holiday Inn, Rolla, Missouri.

Mr. William A. Radlinski, Executive Director, ACSM was the guest speaker.

Mr. Radlinski spoke on Professionalism in the Mapping Community and ACSM's Contributions to Professionalism. He metioned eight attributes which are: Literature, Technical Standards, Education, Qualifications, Ethics, Research, Association, and Participation.

He then explained how ACSM contributed to each of these attributes and ACSM's continuing emphasis on professionalism in mapping and surveying occupations.

He then told of the intangible benefits of ACSM membership and the increases in members and sustaining members. Rad told of the professional liaison with Congress on legislative matters and the firm which represents ACSM. This congressional liaison tries to prevent unfair legislation and promote legislation favorable to ACSM.

In conclusion, Rad stated that professionalism will enhance the role of map makers and contribute toward increased recognition with increased compensation.

There were 100 members and guests at this dinner. The officers and director of the GRAS want to thank Rad for accepting our invitation, and all the people who made this event such a success.

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"STOVE TOP STUFFING?"

Not really stove top stuffing but envelope stuffing. As happens every quarter, the Advance Materials Index (AMI's) are being sent to those people who are on the automatic mailing list to receive this information. This organized stuffing operation is being efficiently handled by Peggy Hughes (left) and Merle McFarland (right).

By H. C. Meaux

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Dear Friends,

Many thanks for the scroll, plumb bob and generous gift.

I am still going at a rapid pace, trying to see the Country in our trailer and performing numerous "Honey do's."

It has been a privilege and pleasure to have worked with such dedicated people over the years

Again "Thanks." Stop by the "farm" when you can.

Lee Suarez

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THANK YOU

It was rather difficult to leave Arizona after spending the winter there with our daughters and families--especially the 13 month old twins, Teva and Ryan--but it was good to come back to old friends, also.

One of the nice events after coming home was the call to come to the Survey to receive my 30 year pin with the accompaning Scroll of Honor and letter from the USGS Director, H. W. Menard, my Retirement Scroll, the plumb bob, a monetary gift, and the well wishes of many friends. It was a most memorable occasion.

Though a bit late (springtime is a busy time for "us farmers"), I want to say thanks again for all these thoughtful expressions and say that they will serve as a ready reminder of all the pleasant relationships that I have enjoyed with USGS personnel.

Sincerely,

Russell Heglin

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Dear Survey Friends,

Retirement to me was a time of mixed emotions. In one sense it was a point from which the future could offer a more leisurely approach and possibly peace of mind. In another sense it marked a separation from a cherished personal association with many and special people who have significantly contributed to the Survey's outstanding and rightful air of pride. I will miss this special association.

Many thanks for the traditional scroll and plumb bob which are special mementos and will be pleasant reminders of a career filled with special people, opportunities and achievements. I also appreciated the additional gift which has already helped to upgrade my golfing gear--an item that has needed improvement for some time.

Cont'd on page 12

It has been an honor and a pleasure throughout my career to have had the opportunity to work with you and the Survey. Keep the pride alive.

Many thanks for the mementos, gift and associations.

Sincerely,

Howell (Hal) Ogletree

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PERSONNEL ACTIONS (through June 6)

Accessions

Dale F. Stevens, SC, Br. of Carto., GS-14

Losses

Brenda S. Gardner, Clerk-Typist, NCIC, Resigned

Detail (NTE 60 days)

Leona S. Rosenow, CT, Br. of Carto., Carto. Sect., Comp. Unit to Br. of Carto., Prep. Sect.

Detail (NTE 120 days)

Gary D. Sanders, CT, Br. of Photogr. Oper. Sect., to Br. of Photogr., Tech. Plan. Sect., Photogr. Contracts & Review Unit
Wilbur E. Willeford, same as above
Everette E. Reppond, same as above
Gilbert O. Schreiner, same as above
Edward F. Haas, CT, Br. of Photogr., Tech. Plan Sect. to Br. of Photogr., Tech. Plan Sect., Photogr. Contracts & Review Unit
Donald R. Pittillo, CT, Br. of Carto., Prep. Sect., to Br. of Carto., Carto. Sect., Comp. Unit
Stanley B. Brady, Br. of Photogr., Photogr. Oper. Sect., to same
Richard E. Parker, Br. of Photogr., Photogr. Oper. Sect., to same

Termination of Detail (NTE 60 days)

Ronald W. Harris, Br. of Carto., Digital Line Graphics Group to, Br. of Carto., Carto. Sect., Comp. Unit
Sherry L. VonKlemen, CA, Br. of Carto., Digital Line Graphics Group to, Br. of Carto., Carto. Sect., Comp Unit

Promotions

William T. Prouty, C, Br. of Carto., Review Editing Group, GS-12
John K. Powell, C, Office of Technology, GS-13
Roger L. Abbott, C, Carto. Trainee Group, GS-7
Robert A. Peckman, C, Br. of Photogr., Photogr. Oper. Sect., GS-11
Jack S. Cornelius, SC, Br. of F.S., Geodetic Section, GS-13
Marvin R. Bookout, SC, Br. of Photogr., Photogr. Oper. Sect., GS-12
F. E. Lortz, SC, Br. of Photogr., Br. Chief, GS-14
Timothy K. Thompson, Photogr. (Lab), Br. of Carto., Photoimagery Sect., GS-5
Donald R. Lucas, SC, Br. of F.S., Field Dist., GS-12
Ronald L. Payne, same as above
Richard D. Vogeler, Mechanic (Instrument), Instr. Maint. Unit, WB-10
Robert D. Scott, Electronics Tech., Instr. Maint. Unit, GS-7
Robert L. Bullinger, CT, Br. of Photogr., Photogr. Oper. Sect., GS-11
Ronald L. Elliott, same as above
Donald L. Moreland, same as above
Robert J. Sturgeon, same as above
Ronald G. Wood, same as above

Reassignments

John D. VanHorn, C, Br. of Photogr., Photogr. Oper. Sect., to SC, Br. of Photogr.
John E. Smith, C, Br. of Photogr., Photogr. Oper. Sect., to SC, Br. of Photogr., Techn. Plan. Sect., Photocontrol Requirements Unit
Donald E. Sidwell, C, Br. of Photogr., Photogr. Oper. Sect., to SC, Tech. Plan. Sect., Photogr. Contracts & Review Unit
Alfred D. Cohran, CA, Br. of Photogr., Tech. Plan. Sect., Photocontrol Requirements Unit, to CA (Trainee) Br. of Photogr., Photogr. Oper. Sect.
Chester S. Spradling, CT, Br. of Carto., Carto. Sect., Comp. Unit, to CT, Br. of Carto., Prep. Sect.
James F. Vitzthum, same as above
Sheree A. Smith, Off. Mach. Oprtr., Br. of Carto., Photoimagery Sect., to Photogr. (Trainee)

Change to lower grade

Shelley L. Hood, Word Processing Clerk (Typing), Br. of Carto., GS-5, to CA (Trainee), Br. of Photogr., Photogr. Oper. Sect., GS-4

Claudia K. Sanders, Computer Aid, Br. of P&P, GS-5, to CA, Br. of Carto., Carto Sect., Comp. Unit., GS-4

****

- - - A W A R D S - - -

SPECIAL ACHIEVEMENT

Stanley E. Walker
Floyd M. Teter
James C. Adams
Richard D. Vogeler
Robert R. Barrett
Dannie D. Bolin
Ralph Chaney

30-YEAR SERVICE

Russell S. Heglin
Roy F. Ferguson
Evelyn C. Baker
Clarence E. Cook
William E. Smith

20-YEAR SERVICE

Jon D. Martin
Donald H. Beasley

10-YEAR SERVICE

Jerold D. Combs

****

SUGGESTIONS

Jerry Wagner (OCC) GS-80-11-M, centering guide for line guage.

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PERSONNEL ACTIONS-OTHER CENTERS

Rupert Southard, Reassignment to Chief, NMD

Doyle Frederick, Reassignment to Associate Chief, NMD

Ernest B. Brunson, Cartographer, promotion, GS-14, NMD

Harold E. Fiebelman, Cartographer, promotion, GS-13, NMD

Thomas E. Spring, Supervisory Cartographer, temporary promotion, GS-13, WMC

Paul D. Brooks, Supervisory Cartographer, promotion, GS-14, NMD

Malcolm J. Stephens, Supervisory Cartographer, reassignment, EMC

Merrill L. Webster, Supervisory Cartographer, promotion, GS-14, EMC

Bernard L. Kelley, Supervisory Cartographer, promotion, GS-15, EMC

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RETIREMENTS IN OTHER CENTERS

Victor Halls, RMMC, 5/14/80
Robert E. Noll, RMMC, 6/13/80
Kenneth S. McLean, RMMC, 5/13/80
Kenneth R. Sheppard, RMMC, 1/31/80
Robert B. Stucky, RMMC, 5/31/80
Charles H. Callaway, RMMC, 4/9/80
Ray H. Hill, NMD, 2/29/80
Armando P. Rodriguez, RMMC, 2/29/80
Stanley H. Schroeder, NMD, 02/80

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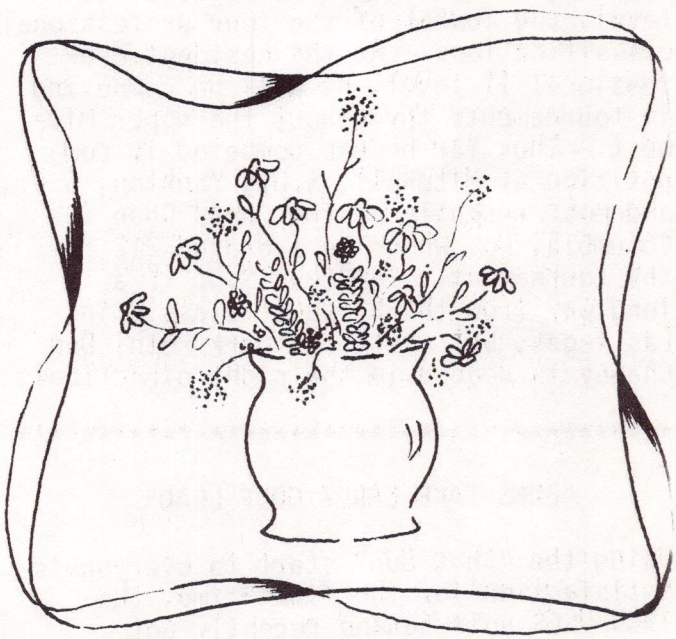

IN MEMORIAM

Mary E. Cornelius, mother of Jack S. Cornelius.

Parilee W. Wilson, mother of Jacquelyn J. Wynn.

John M. (Jack) Schuman, former employee.

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SPORTS

by L. L. Jontz

DON CHANEY ACCEPTED INTO PBA

Don Chaney, Branch of Photogrammetry, recently had a lifetime dream become a reality when the Professional Bowlers Association accepted his application as a member. Don, who has carried a 193 accumlative league average over the last two years, will start at the Resident Professional II level, the lowest of the four professional classifications. At the Resident Professional II level, he will be competing in tournaments throughout the upper Midwest. Thus far he has competed in competition at Mitchell, S.D., Yankton, S.D., and most recently at the Coors Open in Columbia, Mo. where he averaged 212 for the tournament. Yankton, S.D. is a long way from the Showboat Classic in Las Vegas, but watch out Mark Roth, Don Chaney is headed in the right direction!

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"BUMS TAKE EARLY GOLF LEAD"

Using the "Shot Gun" start to everyone's satisfaction for the first time, the 1980 USGS golf season recently got underway with Otis Ummel and his Bums jumping out to an early lead. The Bums, better known in real life as Mark Berg, Pat Hensley, Johnny Frank, Neil Schwartz and Ed Hodge, currently have a five point lead over Hal Ogletree and the Long Knockers.

In this six-point scramble league, each team is divided into two subteams, with each subteam battling an opposing subteam for the point awarded to the winner of medal play (least strokes) and match play (most holes won). The remaining two points are awarded to the medal play and match play winners when the two subteam's results are combined. The season is divided into two halves with a special championship match between these two deciding who will wear the league crown.

Low score for the season belongs to the subteam of Hensley, Frank, and Hodge with a 30, but as one anonymous opposing captain stated, "Since they are all retired, all they do all day is play golf. They ought to be good."

Regardless of the scores, everyone is enjoying the new starting procedures, especially the ones who now get an early start on those clubhouse refreshments.

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STANDINGS (As of June 9)

1.	Ummel's Bums	18
2.	Long Knockers	17
3.	Turner's Turkeys	12
4.	A&P's	12
5.	Kirk's Jerks	11
6.	Lucky 7	10½
7.	No Problems-Par	10½
8.	Homer's Heroes	10
9.	Weird Wallis's Pros	8½
10.	Big 6	8
11.	Sky Hi	2½

****

GOLF SEASON STRIKES AGAIN

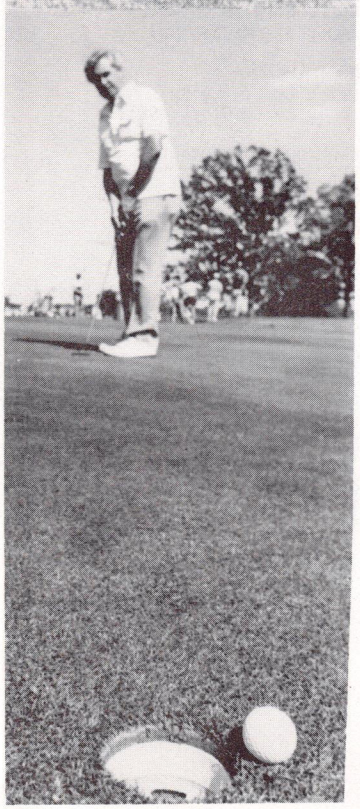
FORE!!!

The golf season is off to a flying start. You can hear all kinds of "If, I's & I should have's" all over the course, but where the little white ball stops tells the story.

We would like to thank all of you for your cooperation in making the "Shot Gun Start" a success. We have received many favorable comments concerning the few delays and early finish time.

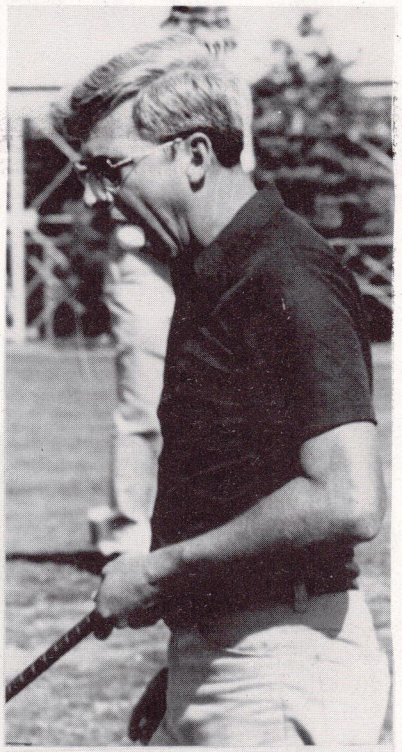
Thanks Again,

Golf Committee



YOU MISSED AGAIN!

AUUUGH!!!



TELL HIM JOE!

MAPS PUBLISHED FOR MARCH 1980

NEW MAPS

NORTH DAKOTA
Boyce Creek East (RMMC) (Marmarth 1NW)

WISCONSIN
Boyd (Cadott NE)
Fairchild (Fairchild SW)
Horse Creek (Fairchild NW)
Lake Eau Claire East (Cadott SE)
Loyal West (Neillsville NE)
Mead Lake West (Stanley SE)
Rock Dam Lake (Fairchild NE)
Simes Creek (Stanley SW)
Stanley (Stanley NW)
Thorp (Stanley NE)
Wildcat Mound (Fairchild SE)
Willard (Neillsville NW)

PHOTOREVISION

OKLAHOMA
Pierce (SMC)

MAPS PUBLISHED FOR APRIL 1980

NEW MAPS

ALABAMA

Marion South (Marion SE)
Morgan Springs (Marion NW)

ILLINOIS
Atwater (Raymond SW)
Carlinville West (Carlinville SW)
Farmersville (Raymond NW)
Monticello (Monticello SE)
Palmyra (Carlinville NW)
Raymond (Raymond SE)
Raymond NE
Virden South (Carlinville NE)

IOWA
Ackley (Ackley SE)
Ackley NE
Aplington (Parkersburg SW)
Buckeye West (Radcliffe NW)
Buckeye East (Radcliffe NE)
Coulter (Popejoy NE)
Dows East (Popejoy NW)
Grundy Center (Grundy Center SE)
Hampton South (Ackley NW)
Holland (Grundy Center NE)
Hubbard (Radcliffe SE)
Iowa Falls East (Ackley SW)
Iowa Falls West (Popejoy SE)
New Providence (Eldora SW)
Owasa (Eldora NW)
Parkersburg (Parkersburg SE)
Popejoy (Popejoy SW)
Radcliffe (Radcliffe SW)
Wellsburg (Grundy Center NW)

KANSAS
Bloom SE (Ashland 2SE)
Harris Draw East (Harris Draw SE)
Harris Draw West (Harris Draw SW)
Horsethief Draw (Horsethief Draw SW)
Horsethief Draw NE
Horsethief Draw NW
Lexington (Ashland 1SE)
Mount Jesus (Ashland 1SW)
Mount Jesus NW (Ashland 1NW)
Sharon Springs East (Wallace NW)
Sharon Springs West (Weskan NE)
Simmons Creek (Ashland 2NE)
Sitka (Sitka NW)
South Flats (Wallace SW)
Spring Valley Ranch (Weskan SE)
Sugarloaf (Sitka NE)
Trout Creek (Sitka SE)
Turkey Creek (Ashland 1NE)
Weskan (Weskan SW)
Weskan NW
Wild Horse Draw (Harris Draw NW)

KANSAS-OKLAHOMA

Sitka SW

MISSOURI-IOWA

Mendota (Centerville SW)
St. John (Seymour SW)

NORTH DAKOTA

Alpha (RMMC) (Medora 3NE)
Chimney Butte (RMMC) (Medora 1SE)
Ives (RMMC) (Marmarth 1SW)

OKLAHOMA

Panola (Red Oak NW)
Red Oak (Red Oak NE)
Talihina (Red Oak SE)

SOUTH DAKOTA
Bijou Hills (Bijou Hills SW)
Bijou Hills NE
Eagle (Bijou Hills SE)
Kimball South (Kimball South NW)
Laffey Lake (Kimball 4SW)
Lake George (Platte NW)
Red Lake East (Bijou Hills NW)
White Lake (Kimball 4NW)

WISCONSIN
Columbia (Neillsville SW)
Granton (Granton SW)
Lake Manakiki (Marshfield SW)
Lindsey (Granton SE)
Loyal East (Granton NW)
Marshfield (Marshfield NW)
Neillsville (Neillsville SE)
Spencer South (Granton NE)

PHOTOREVISION

ARKANSAS
Atkins

ARKANSAS-OKLAHOMA
Mountain Fork

KANSAS
Abilene
Abilene SW
Black Wolf
Brookville SW
Chapman
Dorrance
Dorrance SW
Elmo
Holyrood NE
Lindsborg SE
Lorraine
McPherson North
McPherson SE
McPherson South
Ramona
Tampa

MINNESOTA
Albany
Alexandria East
Avon
Baxter
Belle Prairie NW
Freeport
Gracelock
Gracelock NE
Kerkhoven
Kerkhoven SE
Kerkhoven SW
Melrose
Murdock
Pillager
Randall East (Randall)
Sauk Centre
St. Joseph
Villard

MISSOURI
Huntsville

NORTH DAKOTA
Burlington (SMC)
Burlington NE (SMC)
Burlington NW (SMC)
Burlington SE (SMC)
Carpio
Deering SW (SMC)
Galchutt
Glenburn (SMC)
Minot (SMC)
Minot NW (SMC)
Sawyer NE (SMC)
Stanley (SMC)

OKLAHOMA
Ahloso (SMC)
Keota (SMC)
Red Rock (SMC)
Wolf (SMC)

SOUTH DAKOTA
Pringle

7½' x 15' 1:25,000-SCALE METRIC

SOUTH DAKOTA
Dupree (Dupree SE & SW)

COUNTY MAPS

KANSAS
Saline

30' x 60' 1:100,000-SCALE METRIC

COLORADO
Rangely (Vernal SE)

NEBRASKA
Gothenburg (McCook NE)
Imperial (McCook NW)

NORTH DAKOTA
Hazen (McClusky SW)
McClusky (McClusky SE)

WYOMING-SOUTH DAKOTA
Sundancy (Gillette SE)

CHECK MAP DESIRED:

Name_____

BRANCH/MAIL STOP_____

Maps published during March and April are listed below. An employee who actually worked on any of the maps listed may obtain a complimentary copy by signing and submitting this sheet with quadrangle(s) checked, to NCIC by July 25, 1980.